BELL SYSTEM PRACTICES Plant Series

CONTRENTION

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DATASPEED TAPE RECEIVER 5B

ADJUSTMENT, LUBRICATION, AND DISASSEMBLY

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1. GENERAL

1.01 This section provides adjustments, lubrication and disassembly of the DATASPEED 5B Tape Receiver. It is reissued to improve the contents and to add a tape door adjustment. Arrows in the margins indicate changes and additions.

1.02 Refer to related series of sections for description, installation, trouble shooting, information on options, etc. Refer to the appropriate series of sections for information on the DRPE type high speed tape punch or the data sets.

1.03 The adjustments in this section are arranged in the order that should be followed if a complete readjustment of the apparatus were undertaken.

1.04 Where more than one adjustment is shown on an illustration, follow the - letter sequence (A), (B), (C), etc.

1.05 Unless specifically stated otherwise, references to left or right, front or rear, and up or down apply to the apparatus in its normal operating position (viewed from front).

 1.06 The tools and spring scales required to perform these adjustments are listed in the applicable section. The standard tool kit (eg. TP171312 tool kit) will suffice for the mechanical cabinet and tape punch adjustments. A TP148370 punch pin penetration gauge is also useful. Adjustment of the punch driver should seldom (if ever) be required. This adjustment however would require an oscilloscope.

1.07 The spring tensions given in this section are indications, not exact values, and should be checked with the proper scales in the positions shown. Springs which do not meet the requirements and for which there are no adjusting procedures should be discarded and replaced by new springs.

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2. ADJUSTMENTS

TAPE PUNCH

2.01 For adjustment information pertaining to the tape punch, refer to the appropriate tape punch (DRPE type) section.

CABINET

2.02 Cabinet Structure





PUNCH COVER LATCHES

Requirement

Cover to be held firmly against the front panel at the top and two sides.

To Adjust

With the magnetic latch mounting screws friction tight, move the magnet latches in or out to meet requirement. Tighten the screws.

2.03 Cabinet Structure (Continued)



FRONT PANEL CLEARANCE

Requirement

Equal gap between front panel and cabinet shell measured all around front panel. Panel should be parallel to cabinet shell as viewed from side. Gauge by eye.

To Adjust

- (1) Loosen right and left outer channel mounting screws friction tight. Position channels up or down until top and bottom gap between front panel and cabinet are about equal and panel is parallel. Tighten screws.
- (2) With front panel mounting screws loosened, position panel to left or right until gaps between sides of panel and cabinet are about equal.



SIDE VIEW

2.04 Tape Handling Mechanism





2.06 Tape Handling Mechanism (Continued)



2.07 Tape Handling Mechanism (Continued)



2.08 Tape Handling Mechanism (Continued)

2.09 Fan Assembly

FAN SLEEVE

2.10 Tape Handling Mechanism (Continued)

RECEIVER MODULE

- 2.12 To compensate for variations in voltage, components, and mechanical tolerances it is necessary to make an initial (factory) adjustment of all punch magnet driver cards (EC672) and of the logic card (EC675). These adjustments are made as follows:
 - Set the potentiometer (R13) on all nine magnet driver cards (Z104 through Z112) to mid-range.
 - (2) Transmit an all marking signal to the reperforator control (at the maximum required rate).
 - (3) Use an oscilloscope to monitor pin 13 of logic and Z113. The monitored waveform should be a negative pulse occurring at the marking signal rate. Adjust potentiometer R13 on Z113 so that the negative pulse width is 1.9 milliseconds.
 - (4) Turn R13 on the feed magnet driver card (Z112) counterclockwise until a failure occurs in the tape. Now back off the potentiometer adjustment 5 turns (clockwise).

(5) Repeat step (4) for magnet driver cards Z104 through Z111.

3. LUBRICATION

GENERAL

- 3.01 The following lubrication symbols are used throughout this section.
 - O1 one drop of oil (KS7470)
 - O3 three drops of oil (KS7470)
 - G thin coat of grease (Lubriplate)

3.02 No lubrication is required at the receiver module. The punch and cabinet should be lubricated before they are placed in service, again within a few weeks, and thereafter at intervals specified for the punch.

TAPE PUNCH

3.03 Refer to the appropriate tape punch (DRPE type) section.

CABINET

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3.04 Cabinet Structure

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